

CLAIMS

- 5 1. An aluminium workpiece having on a surface thereof an anodic oxide film and a coating which consists essentially of at least one adhesion promoter, providing that promoters based on silicon-organic compounds are excluded.
- 10 2. The aluminium workpiece of claim 1, wherein there is a paint, lacquer, varnish or enamel layer overlying the adhesion promoter coating.
- 15 3. The aluminium workpiece of claim 2, which is aluminium sheet of which at least one surface has the anodic oxide film, the adhesion promoter coating and the paint, lacquer, varnish or enamel layer.
- 20 4. The aluminium workpiece of claim 2 or claim 3, wherein the anodic oxide film is 50 – 200 nm thick.
5. The aluminium workpiece of any one of claims 2 to 4, wherein the adhesion promoter coating is present at a weight of 5 – 500 mg/m².
- 25 6. The aluminium workpiece of any one of claims 2 to 5, which is painted sheet for architectural use.
7. The aluminium workpiece of any one of claims 2 to 6, wherein the adhesion promoter is selected from at least one of polyacrylic acid, poly(hydroxyphenyl)styrene and pretreatments comprising one or more of Cr, Mn, Mo, Si, Ti, Zr and F.
- 30 8. The aluminium workpiece of claim 1, wherein the adhesion promoter is one containing one or more of Cr, Mn, Mo, Si, Ti and Zr.

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9. The aluminium workpiece of claim 8, which is aluminium sheet of which at least one surface has the anodic oxide film, the adhesion promoter and a paint layer or an adhesive overlying the adhesion promoter.

10. The aluminium workpiece of claim 8 or claim 9, wherein the anodic oxide film is 10 – 50 nm thick.

11. The aluminium workpiece of any one of claims 8 to 10, wherein the adhesion promoter coating is present at a weight of 2 – 100 mg/m².

12. The aluminium workpiece of any one of claims 8 to 11, wherein the Cr, Mn, Mo, Si, Ti, Zr and F of the adhesion promoter are inorganic.

13. The aluminium workpiece of any one of claims 8 to 12, which is primed sheet for automotive use.

14. The aluminium workpiece of claim 9 wherein the paint layer is of an electro-conductive paint primer.

15. A method of treating an aluminium workpiece, which method comprises precleaning a surface of the workpiece, anodising the workpiece so as to form an anodic oxide film on the surface and applying to the anodic oxide film a coating consisting essentially of at least one adhesion promoter, provided that adhesion promoters based on silicon-organic compounds are excluded.

16. The method of claim 15, wherein there is applied over the adhesion promoter coating a paint, lacquer, varnish or enamel layer.

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17. The method of claim 16, wherein the adhesion promoter is applied as a no-rinse coating or a conversion coating.

18. The method of claim 16 or claim 17, wherein the aluminium workpiece is aluminium sheet.

19. The method of claim 18, wherein the precleaned surface of the sheet is continuously anodised to form an anodic oxide film on the surface.

20. The method of any one of claims 15 to 19, wherein the adhesion promoter is one containing one or more of Cr, Mn, Mo, Si, Ti, Zr and F.

21. The method of claim 20, wherein a paint layer or adhesive is applied over the adhesion promoter coating.

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